

# PATENT ABSTRACTS OF JAPAN

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## (54) MOBILE GROUP COMMUNICATION SYSTEM

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a mobile group communication system that allows a mobile station device to take a part in group communication when power supply of the mobile station device is turned on or the mobile station device is resident in a service zone or an idle channel is available in the midst of the group communication, and that reduces ineffective transmission time of a control message for midway participation in the group communication.

**SOLUTION:** A channel controller 11 stores group communication management data consisting of a group number for group communication during execution, a number of a base station device not executing the group communication, and information denoting whether or not an idle channel is in existence in a base station. A mobile station unit 33 whose power is turned on or which is resident in a service zone in the midst of the group communication transmits (1-3) a group communication participation request message after the end of position registration. The channel controller 11 receiving the message references the group communication management data and commands a base station device that has not yet executed the group communication but has an idle channel to transmit (1-5) a group communication incoming message.

